datis dentato-repandis glabris, petiolis asperis, pedunculis filiformibus, floribus nutantibus, calcare brevissimo. G. Don, Syst. Gard. i. p. 334.—Viola Sieberiana, Spreng. Syst. Veg. App. p. 68.

New Zealand (Northern Island). Among fern, near the Mission House on the Keri-Keri river, Bay of Islands.—1833, R. Cunningham.

[To be continued.]

BIBLIOGRAPHICAL NOTICES.

Principles of General and Comparative Physiology, intended as an introduction to the study of Human Physiology, and as a Guide to the Philosophical Pursuit of Natural History. By William B. Carpenter, M.R.C.S., late President of the Royal Medical and Royal Physical Societies of Edinburgh, &c. &c. With 240 Figures on Copper and Wood. London, 1839.

datis dentato-repandis glabris, petiolis asperis, pedunculis filiformibus, floribus nutantibus, calcare brevissimo. G. Don, Syst. Gard. i. p. 334.—Viola Sieberiana, Spreng. Syst. Veg. App. p. 68.

New Zealand (Northern Island). Among fern, near the Mission House on the Keri-Keri river, Bay of Islands.—1833, R. Cunningham.

[To be continued.]

BIBLIOGRAPHICAL NOTICES.

Principles of General and Comparative Physiology, intended as an introduction to the study of Human Physiology, and as a Guide to the Philosophical Pursuit of Natural History. By William B. Carpenter, M.R.C.S., late President of the Royal Medical and Royal Physical Societies of Edinburgh, &c. &c. With 240 Figures on Copper and Wood. London, 1839.

datis dentato-repandis glabris, petiolis asperis, pedunculis filiformibus, floribus nutantibus, calcare brevissimo. G. Don, Syst. Gard. i. p. 334.—Viola Sieberiana, Spreng. Syst. Veg. App. p. 68.

New Zealand (Northern Island). Among fern, near the Mission House on the Keri-Keri river, Bay of Islands.—1833, R. Cunningham.

[To be continued.]

BIBLIOGRAPHICAL NOTICES.

Principles of General and Comparative Physiology, intended as an introduction to the study of Human Physiology, and as a Guide to the Philosophical Pursuit of Natural History. By William B. Carpenter, M.R.C.S., late President of the Royal Medical and Royal Physical Societies of Edinburgh, &c. &c. With 240 Figures on Copper and Wood. London, 1839.

datis dentato-repandis glabris, petiolis asperis, pedunculis filiformibus, floribus nutantibus, calcare brevissimo. G. Don, Syst. Gard. i. p. 334.—Viola Sieberiana, Spreng. Syst. Veg. App. p. 68.

New Zealand (Northern Island). Among fern, near the Mission House on the Keri-Keri river, Bay of Islands.—1833, R. Cunningham.

[To be continued.]

BIBLIOGRAPHICAL NOTICES.

Principles of General and Comparative Physiology, intended as an introduction to the study of Human Physiology, and as a Guide to the Philosophical Pursuit of Natural History. By William B. Carpenter, M.R.C.S., late President of the Royal Medical and Royal Physical Societies of Edinburgh, &c. &c. With 240 Figures on Copper and Wood. London, 1839.

as is calculated rather to mislead than to guide them in their researches. And among physiologists it is but recently that the great truth has been generally recognised, that the study of the structure and functions of the inferior classes of organized beings is capable of affording the most important assistance in the solution of the many difficulties which attend the investigation of the phænomena of life in man.

as is calculated rather to mislead than to guide them in their researches. And among physiologists it is but recently that the great truth has been generally recognised, that the study of the structure and functions of the inferior classes of organized beings is capable of affording the most important assistance in the solution of the many difficulties which attend the investigation of the phænomena of life in man.

as is calculated rather to mislead than to guide them in their researches. And among physiologists it is but recently that the great truth has been generally recognised, that the study of the structure and functions of the inferior classes of organized beings is capable of affording the most important assistance in the solution of the many difficulties which attend the investigation of the phænomena of life in man.

as is calculated rather to mislead than to guide them in their researches. And among physiologists it is but recently that the great truth has been generally recognised, that the study of the structure and functions of the inferior classes of organized beings is capable of affording the most important assistance in the solution of the many difficulties which attend the investigation of the phænomena of life in man.

In the lowest cellular plants every part of the surface appears equally concerned in the function of absorption. This is most evident in those simple protophytes usually classed among the Algæ, which consist of an aggregation of insulated vesicles, each of which may almost be regarded as a distinct individual. Thus the surface of one of the cells of the Protococcus nivalis may be regarded as all root. In the higher genera of this group the separate vesicles no longer maintain their individuality, but form part of one definite structure. Still the whole surface appears to be endowed with the power of absorption in nearly an equal degree; and though the semblance of a stem and roots occasionally presents itself, these appear to have no other function than to give attachment to the frondose expansion. There is no transmission of fluid from one part to another, each cell deriving from the surrounding medium, or from the surcharged cells in its immediate neighbourhood, the fluid essential to its existence. It is in the Lichens that we find the first specialization of the absorbent function, by the restriction of it to the side least exposed to the sun and air, whilst the reproductive function, which in the Algæ was common to nearly the whole frond, is here confined to the other surface. In some lichens we find radical filaments developed from the absorbent surface, the first indication of special organs for the purpose. In the Fungi the separation between the nutrient and reproductive organs is generally still more complete, and in the highest groups of this order a stem with very definite roots is developed. These are yet more complete in the mosses, but still nutrition may be performed by the general surface independently of them. And even where these filamentous processes of the Cryptogamia bear the greatest resemblance to roots, there is reason to believe that they absorb by their whole surface, and not by their points alone. In the vascular plants we find the function of absorption attaining its highest degree of specialization, being as it were concentrated in the growing points of the roots, which are known as the spongioles, and the function is more actively performed by them in proportion to the small amount of surface they expose.

In the lowest cellular plants every part of the surface appears equally concerned in the function of absorption. This is most evident in those simple protophytes usually classed among the Algæ, which consist of an aggregation of insulated vesicles, each of which may almost be regarded as a distinct individual. Thus the surface of one of the cells of the Protococcus nivalis may be regarded as all root. In the higher genera of this group the separate vesicles no longer maintain their individuality, but form part of one definite structure. Still the whole surface appears to be endowed with the power of absorption in nearly an equal degree; and though the semblance of a stem and roots occasionally presents itself, these appear to have no other function than to give attachment to the frondose expansion. There is no transmission of fluid from one part to another, each cell deriving from the surrounding medium, or from the surcharged cells in its immediate neighbourhood, the fluid essential to its existence. It is in the Lichens that we find the first specialization of the absorbent function, by the restriction of it to the side least exposed to the sun and air, whilst the reproductive function, which in the Algæ was common to nearly the whole frond, is here confined to the other surface. In some lichens we find radical filaments developed from the absorbent surface, the first indication of special organs for the purpose. In the Fungi the separation between the nutrient and reproductive organs is generally still more complete, and in the highest groups of this order a stem with very definite roots is developed. These are yet more complete in the mosses, but still nutrition may be performed by the general surface independently of them. And even where these filamentous processes of the Cryptogamia bear the greatest resemblance to roots, there is reason to believe that they absorb by their whole surface, and not by their points alone. In the vascular plants we find the function of absorption attaining its highest degree of specialization, being as it were concentrated in the growing points of the roots, which are known as the spongioles, and the function is more actively performed by them in proportion to the small amount of surface they expose.

In the lowest cellular plants every part of the surface appears equally concerned in the function of absorption. This is most evident in those simple protophytes usually classed among the Algæ, which consist of an aggregation of insulated vesicles, each of which may almost be regarded as a distinct individual. Thus the surface of one of the cells of the Protococcus nivalis may be regarded as all root. In the higher genera of this group the separate vesicles no longer maintain their individuality, but form part of one definite structure. Still the whole surface appears to be endowed with the power of absorption in nearly an equal degree; and though the semblance of a stem and roots occasionally presents itself, these appear to have no other function than to give attachment to the frondose expansion. There is no transmission of fluid from one part to another, each cell deriving from the surrounding medium, or from the surcharged cells in its immediate neighbourhood, the fluid essential to its existence. It is in the Lichens that we find the first specialization of the absorbent function, by the restriction of it to the side least exposed to the sun and air, whilst the reproductive function, which in the Algæ was common to nearly the whole frond, is here confined to the other surface. In some lichens we find radical filaments developed from the absorbent surface, the first indication of special organs for the purpose. In the Fungi the separation between the nutrient and reproductive organs is generally still more complete, and in the highest groups of this order a stem with very definite roots is developed. These are yet more complete in the mosses, but still nutrition may be performed by the general surface independently of them. And even where these filamentous processes of the Cryptogamia bear the greatest resemblance to roots, there is reason to believe that they absorb by their whole surface, and not by their points alone. In the vascular plants we find the function of absorption attaining its highest degree of specialization, being as it were concentrated in the growing points of the roots, which are known as the spongioles, and the function is more actively performed by them in proportion to the small amount of surface they expose.

In the lowest cellular plants every part of the surface appears equally concerned in the function of absorption. This is most evident in those simple protophytes usually classed among the Algæ, which consist of an aggregation of insulated vesicles, each of which may almost be regarded as a distinct individual. Thus the surface of one of the cells of the Protococcus nivalis may be regarded as all root. In the higher genera of this group the separate vesicles no longer maintain their individuality, but form part of one definite structure. Still the whole surface appears to be endowed with the power of absorption in nearly an equal degree; and though the semblance of a stem and roots occasionally presents itself, these appear to have no other function than to give attachment to the frondose expansion. There is no transmission of fluid from one part to another, each cell deriving from the surrounding medium, or from the surcharged cells in its immediate neighbourhood, the fluid essential to its existence. It is in the Lichens that we find the first specialization of the absorbent function, by the restriction of it to the side least exposed to the sun and air, whilst the reproductive function, which in the Algæ was common to nearly the whole frond, is here confined to the other surface. In some lichens we find radical filaments developed from the absorbent surface, the first indication of special organs for the purpose. In the Fungi the separation between the nutrient and reproductive organs is generally still more complete, and in the highest groups of this order a stem with very definite roots is developed. These are yet more complete in the mosses, but still nutrition may be performed by the general surface independently of them. And even where these filamentous processes of the Cryptogamia bear the greatest resemblance to roots, there is reason to believe that they absorb by their whole surface, and not by their points alone. In the vascular plants we find the function of absorption attaining its highest degree of specialization, being as it were concentrated in the growing points of the roots, which are known as the spongioles, and the function is more actively performed by them in proportion to the small amount of surface they expose.

are highly specialized, the general structure retains, more or less, the primitive community of function which originally characterized it." We have seen that in the simplest or most homogeneous beings the entire surface participates equally in the function of absorption, and we now perceive that even in the highest and most heterogeneous. where the number of distinct organs is greatest and their respective functions most completely restricted to them, some traces of this primitive community remain. We shall conclude our illustration by quoting the account given by Mr. Carpenter of the development of the same system in the embryo of a vascular plant, in which he ingeniously shows its conformity to the same laws. "In tracing the gradual evolution of the special absorbent system of the more perfect plants, we may observe many interesting relations between the progressive stages of its development and the permanent forms of the system in the lower orders. Thus the embryo at its first appearance within the ovule is nothing but a single cell, like that of the Protococcus, in the midst of the store of semi-fluid nutriment prepared by its parent, which it gradually absorbs by its whole surface, just as do the simplest cellular plants. At the time of the ripening of the seed we mark the rudiment of the future root, which is developed during germination ; but in the early stages of this process the radicle simply prolongs itself into the ground, and appears to be equally capable of imbibing moisture through its whole length, like that of the fungi or mosses. It is not until the true leaves are evolved that the root begins to extend itself by ramification, then first protruding perfect fibrils composed of woody fibre and vessels and terminated by spongioles."

We need scarcely point out the additional interest which is given to the *facts* of science when they thus become subservient to the establishment of those generalizations in which true science consists. Again, to quote our author's language, "At every successive step we are led to comprehend new relations between facts that previously seemed confused and insulated; new objects for what at first seemed destitute of utility; and in the same proportion will the contemplative spirit be led to appreciate the vastness of that Designing Mind, which, in originally ordaining the laws of the animated world, could produce such harmony and adaptation amongst their innumerable results."

Having thus endeavoured to communicate to our readers an idea of the objects and spirit of this treatise, we shall briefly indicate its contents. It is divided into two books, the first of which is devoted to general physiology, the second to special physiology. These,

are highly specialized, the general structure retains, more or less, the primitive community of function which originally characterized it." We have seen that in the simplest or most homogeneous beings the entire surface participates equally in the function of absorption, and we now perceive that even in the highest and most heterogeneous. where the number of distinct organs is greatest and their respective functions most completely restricted to them, some traces of this primitive community remain. We shall conclude our illustration by quoting the account given by Mr. Carpenter of the development of the same system in the embryo of a vascular plant, in which he ingeniously shows its conformity to the same laws. "In tracing the gradual evolution of the special absorbent system of the more perfect plants, we may observe many interesting relations between the progressive stages of its development and the permanent forms of the system in the lower orders. Thus the embryo at its first appearance within the ovule is nothing but a single cell, like that of the Protococcus, in the midst of the store of semi-fluid nutriment prepared by its parent, which it gradually absorbs by its whole surface, just as do the simplest cellular plants. At the time of the ripening of the seed we mark the rudiment of the future root, which is developed during germination ; but in the early stages of this process the radicle simply prolongs itself into the ground, and appears to be equally capable of imbibing moisture through its whole length, like that of the fungi or mosses. It is not until the true leaves are evolved that the root begins to extend itself by ramification, then first protruding perfect fibrils composed of woody fibre and vessels and terminated by spongioles."

We need scarcely point out the additional interest which is given to the *facts* of science when they thus become subservient to the establishment of those generalizations in which true science consists. Again, to quote our author's language, "At every successive step we are led to comprehend new relations between facts that previously seemed confused and insulated; new objects for what at first seemed destitute of utility; and in the same proportion will the contemplative spirit be led to appreciate the vastness of that Designing Mind, which, in originally ordaining the laws of the animated world, could produce such harmony and adaptation amongst their innumerable results."

Having thus endeavoured to communicate to our readers an idea of the objects and spirit of this treatise, we shall briefly indicate its contents. It is divided into two books, the first of which is devoted to general physiology, the second to special physiology. These,

are highly specialized, the general structure retains, more or less, the primitive community of function which originally characterized it." We have seen that in the simplest or most homogeneous beings the entire surface participates equally in the function of absorption, and we now perceive that even in the highest and most heterogeneous. where the number of distinct organs is greatest and their respective functions most completely restricted to them, some traces of this primitive community remain. We shall conclude our illustration by quoting the account given by Mr. Carpenter of the development of the same system in the embryo of a vascular plant, in which he ingeniously shows its conformity to the same laws. "In tracing the gradual evolution of the special absorbent system of the more perfect plants, we may observe many interesting relations between the progressive stages of its development and the permanent forms of the system in the lower orders. Thus the embryo at its first appearance within the ovule is nothing but a single cell, like that of the Protococcus, in the midst of the store of semi-fluid nutriment prepared by its parent, which it gradually absorbs by its whole surface, just as do the simplest cellular plants. At the time of the ripening of the seed we mark the rudiment of the future root, which is developed during germination ; but in the early stages of this process the radicle simply prolongs itself into the ground, and appears to be equally capable of imbibing moisture through its whole length, like that of the fungi or mosses. It is not until the true leaves are evolved that the root begins to extend itself by ramification, then first protruding perfect fibrils composed of woody fibre and vessels and terminated by spongioles."

We need scarcely point out the additional interest which is given to the *facts* of science when they thus become subservient to the establishment of those generalizations in which true science consists. Again, to quote our author's language, "At every successive step we are led to comprehend new relations between facts that previously seemed confused and insulated; new objects for what at first seemed destitute of utility; and in the same proportion will the contemplative spirit be led to appreciate the vastness of that Designing Mind, which, in originally ordaining the laws of the animated world, could produce such harmony and adaptation amongst their innumerable results."

Having thus endeavoured to communicate to our readers an idea of the objects and spirit of this treatise, we shall briefly indicate its contents. It is divided into two books, the first of which is devoted to general physiology, the second to special physiology. These,

are highly specialized, the general structure retains, more or less, the primitive community of function which originally characterized it." We have seen that in the simplest or most homogeneous beings the entire surface participates equally in the function of absorption, and we now perceive that even in the highest and most heterogeneous. where the number of distinct organs is greatest and their respective functions most completely restricted to them, some traces of this primitive community remain. We shall conclude our illustration by quoting the account given by Mr. Carpenter of the development of the same system in the embryo of a vascular plant, in which he ingeniously shows its conformity to the same laws. "In tracing the gradual evolution of the special absorbent system of the more perfect plants, we may observe many interesting relations between the progressive stages of its development and the permanent forms of the system in the lower orders. Thus the embryo at its first appearance within the ovule is nothing but a single cell, like that of the Protococcus, in the midst of the store of semi-fluid nutriment prepared by its parent, which it gradually absorbs by its whole surface, just as do the simplest cellular plants. At the time of the ripening of the seed we mark the rudiment of the future root, which is developed during germination ; but in the early stages of this process the radicle simply prolongs itself into the ground, and appears to be equally capable of imbibing moisture through its whole length, like that of the fungi or mosses. It is not until the true leaves are evolved that the root begins to extend itself by ramification, then first protruding perfect fibrils composed of woody fibre and vessels and terminated by spongioles."

We need scarcely point out the additional interest which is given to the *facts* of science when they thus become subservient to the establishment of those generalizations in which true science consists. Again, to quote our author's language, "At every successive step we are led to comprehend new relations between facts that previously seemed confused and insulated; new objects for what at first seemed destitute of utility; and in the same proportion will the contemplative spirit be led to appreciate the vastness of that Designing Mind, which, in originally ordaining the laws of the animated world, could produce such harmony and adaptation amongst their innumerable results."

Having thus endeavoured to communicate to our readers an idea of the objects and spirit of this treatise, we shall briefly indicate its contents. It is divided into two books, the first of which is devoted to general physiology, the second to special physiology. These,

however, are preceded by an introduction of considerable length, designed to present to those who stand in need of such preliminary information a general view of the organized creation. The characteristics of organized structures are first pointed out, and the elementary tissues of plants and animals described. Here will be found various novel and interesting analogies, especially in regard to the variations which the type of the *spiral vessel* presents. An outline view is then given of the characters of each of the principal groups of the vegetable and animal kingdoms, in which the links of transition and their respective analogies are specially pointed out.

Under the head of General Physiology are discussed the nature and causes of vital actions; the dependence of life upon external stimuli; heat, light, electricity, &c.; and the laws of organic development. These are succeeded by a connected view of the functions performed by organized beings, in which their mutual relations are shown, and the distinctions between plants and animals definitely pointed out.

In the second book, comprising Special Physiology, each function is considered in detail. The evolution of its particular organ in the ascending scale of being is described, first as regards the vegetable kingdom (in the manner we have already instanced), and then the animal kingdom, and its correspondence with the development of the same organs in the embryo of higher beings is displayed. Under this head are introduced explanations of various interesting malformations or *monstrosities* which result from arrest of development; these are most frequently presented in the circulating system of animals.

however, are preceded by an introduction of considerable length, designed to present to those who stand in need of such preliminary information a general view of the organized creation. The characteristics of organized structures are first pointed out, and the elementary tissues of plants and animals described. Here will be found various novel and interesting analogies, especially in regard to the variations which the type of the *spiral vessel* presents. An outline view is then given of the characters of each of the principal groups of the vegetable and animal kingdoms, in which the links of transition and their respective analogies are specially pointed out.

Under the head of General Physiology are discussed the nature and causes of vital actions; the dependence of life upon external stimuli; heat, light, electricity, &c.; and the laws of organic development. These are succeeded by a connected view of the functions performed by organized beings, in which their mutual relations are shown, and the distinctions between plants and animals definitely pointed out.

In the second book, comprising Special Physiology, each function is considered in detail. The evolution of its particular organ in the ascending scale of being is described, first as regards the vegetable kingdom (in the manner we have already instanced), and then the animal kingdom, and its correspondence with the development of the same organs in the embryo of higher beings is displayed. Under this head are introduced explanations of various interesting malformations or *monstrosities* which result from arrest of development; these are most frequently presented in the circulating system of animals.

however, are preceded by an introduction of considerable length, designed to present to those who stand in need of such preliminary information a general view of the organized creation. The characteristics of organized structures are first pointed out, and the elementary tissues of plants and animals described. Here will be found various novel and interesting analogies, especially in regard to the variations which the type of the *spiral vessel* presents. An outline view is then given of the characters of each of the principal groups of the vegetable and animal kingdoms, in which the links of transition and their respective analogies are specially pointed out.

Under the head of General Physiology are discussed the nature and causes of vital actions; the dependence of life upon external stimuli; heat, light, electricity, &c.; and the laws of organic development. These are succeeded by a connected view of the functions performed by organized beings, in which their mutual relations are shown, and the distinctions between plants and animals definitely pointed out.

In the second book, comprising Special Physiology, each function is considered in detail. The evolution of its particular organ in the ascending scale of being is described, first as regards the vegetable kingdom (in the manner we have already instanced), and then the animal kingdom, and its correspondence with the development of the same organs in the embryo of higher beings is displayed. Under this head are introduced explanations of various interesting malformations or *monstrosities* which result from arrest of development; these are most frequently presented in the circulating system of animals.

however, are preceded by an introduction of considerable length, designed to present to those who stand in need of such preliminary information a general view of the organized creation. The characteristics of organized structures are first pointed out, and the elementary tissues of plants and animals described. Here will be found various novel and interesting analogies, especially in regard to the variations which the type of the *spiral vessel* presents. An outline view is then given of the characters of each of the principal groups of the vegetable and animal kingdoms, in which the links of transition and their respective analogies are specially pointed out.

Under the head of General Physiology are discussed the nature and causes of vital actions; the dependence of life upon external stimuli; heat, light, electricity, &c.; and the laws of organic development. These are succeeded by a connected view of the functions performed by organized beings, in which their mutual relations are shown, and the distinctions between plants and animals definitely pointed out.

In the second book, comprising Special Physiology, each function is considered in detail. The evolution of its particular organ in the ascending scale of being is described, first as regards the vegetable kingdom (in the manner we have already instanced), and then the animal kingdom, and its correspondence with the development of the same organs in the embryo of higher beings is displayed. Under this head are introduced explanations of various interesting malformations or *monstrosities* which result from arrest of development; these are most frequently presented in the circulating system of animals.

question, we may recommend his views to the attentive consideration of our botanical readers. We understand that they have been presented in more detail to the Botanical Society of Edinburgh, and that they have been mentioned with high approbation by Professor Graham in his late retrospective address. On some points they correspond in a remarkable manner with the researches of M. Schleiden, which were not published at the time when the author first made known the general result of his inquiries*.

After what we have said of the character of this work it is almost needless to add our strong recommendation of it to our readers as one which can scarcely fail to be of service to them, in whatever department of natural history they may be engaged. Although specially designed for the medical student the author has taken much pains to adapt it to the general reader, and we trust that he may meet with his reward in the advancement of that philosophical spirit of inquiry which it is his aim to promote.

Memoirs of the Wernerian Natural History Society for the Years 1837-38. Part I. Vol. VIII. 8vo. 1839.

The Memoirs of this Society have hitherto been published in 8vo volumes at very distant intervals, thereby losing much of their interest on account of the long period which elapsed between the reading and publication of the papers, and often forcing gentlemen who had important information to communicate to lay it before some other Association which was more regular in the issue of their Transactions; we are happy therefore to see the present Part, and trust that at the end of each session at least, the more valuable communications which have been read at its meetings may be published and illustrated. We may remark that the price, 6s., is rather beyond that of the periodicals of the time, while the workmanship is not superior. The papers contained in this part are,

[•] See 'British and Foreign Medical Review,' vol. iv. p. 561. Translations of Dr. Schleiden's papers have appeared in the 'Lond. and Edin. Phil. Mag.', vol. xii., and 'Taylor's Scientific Memoirs', Part VI.

question, we may recommend his views to the attentive consideration of our botanical readers. We understand that they have been presented in more detail to the Botanical Society of Edinburgh, and that they have been mentioned with high approbation by Professor Graham in his late retrospective address. On some points they correspond in a remarkable manner with the researches of M. Schleiden, which were not published at the time when the author first made known the general result of his inquiries*.

After what we have said of the character of this work it is almost needless to add our strong recommendation of it to our readers as one which can scarcely fail to be of service to them, in whatever department of natural history they may be engaged. Although specially designed for the medical student the author has taken much pains to adapt it to the general reader, and we trust that he may meet with his reward in the advancement of that philosophical spirit of inquiry which it is his aim to promote.

Memoirs of the Wernerian Natural History Society for the Years 1837-38. Part I. Vol. VIII. 8vo. 1839.

The Memoirs of this Society have hitherto been published in 8vo volumes at very distant intervals, thereby losing much of their interest on account of the long period which elapsed between the reading and publication of the papers, and often forcing gentlemen who had important information to communicate to lay it before some other Association which was more regular in the issue of their Transactions; we are happy therefore to see the present Part, and trust that at the end of each session at least, the more valuable communications which have been read at its meetings may be published and illustrated. We may remark that the price, 6s., is rather beyond that of the periodicals of the time, while the workmanship is not superior. The papers contained in this part are,

[•] See 'British and Foreign Medical Review,' vol. iv. p. 561. Translations of Dr. Schleiden's papers have appeared in the 'Lond. and Edin. Phil. Mag.', vol. xii., and 'Taylor's Scientific Memoirs', Part VI.

question, we may recommend his views to the attentive consideration of our botanical readers. We understand that they have been presented in more detail to the Botanical Society of Edinburgh, and that they have been mentioned with high approbation by Professor Graham in his late retrospective address. On some points they correspond in a remarkable manner with the researches of M. Schleiden, which were not published at the time when the author first made known the general result of his inquiries*.

After what we have said of the character of this work it is almost needless to add our strong recommendation of it to our readers as one which can scarcely fail to be of service to them, in whatever department of natural history they may be engaged. Although specially designed for the medical student the author has taken much pains to adapt it to the general reader, and we trust that he may meet with his reward in the advancement of that philosophical spirit of inquiry which it is his aim to promote.

Memoirs of the Wernerian Natural History Society for the Years 1837-38. Part I. Vol. VIII. 8vo. 1839.

The Memoirs of this Society have hitherto been published in 8vo volumes at very distant intervals, thereby losing much of their interest on account of the long period which elapsed between the reading and publication of the papers, and often forcing gentlemen who had important information to communicate to lay it before some other Association which was more regular in the issue of their Transactions; we are happy therefore to see the present Part, and trust that at the end of each session at least, the more valuable communications which have been read at its meetings may be published and illustrated. We may remark that the price, 6s., is rather beyond that of the periodicals of the time, while the workmanship is not superior. The papers contained in this part are,

[•] See 'British and Foreign Medical Review,' vol. iv. p. 561. Translations of Dr. Schleiden's papers have appeared in the 'Lond. and Edin. Phil. Mag.', vol. xii., and 'Taylor's Scientific Memoirs', Part VI.

question, we may recommend his views to the attentive consideration of our botanical readers. We understand that they have been presented in more detail to the Botanical Society of Edinburgh, and that they have been mentioned with high approbation by Professor Graham in his late retrospective address. On some points they correspond in a remarkable manner with the researches of M. Schleiden, which were not published at the time when the author first made known the general result of his inquiries*.

After what we have said of the character of this work it is almost needless to add our strong recommendation of it to our readers as one which can scarcely fail to be of service to them, in whatever department of natural history they may be engaged. Although specially designed for the medical student the author has taken much pains to adapt it to the general reader, and we trust that he may meet with his reward in the advancement of that philosophical spirit of inquiry which it is his aim to promote.

Memoirs of the Wernerian Natural History Society for the Years 1837-38. Part I. Vol. VIII. 8vo. 1839.

The Memoirs of this Society have hitherto been published in 8vo volumes at very distant intervals, thereby losing much of their interest on account of the long period which elapsed between the reading and publication of the papers, and often forcing gentlemen who had important information to communicate to lay it before some other Association which was more regular in the issue of their Transactions; we are happy therefore to see the present Part, and trust that at the end of each session at least, the more valuable communications which have been read at its meetings may be published and illustrated. We may remark that the price, 6s., is rather beyond that of the periodicals of the time, while the workmanship is not superior. The papers contained in this part are,

[•] See 'British and Foreign Medical Review,' vol. iv. p. 561. Translations of Dr. Schleiden's papers have appeared in the 'Lond. and Edin. Phil. Mag.', vol. xii., and 'Taylor's Scientific Memoirs', Part VI.